

# 8



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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/022,073

DATE: 06/28/2002  
 TIME: 10:09:00

Input Set : A:\GC713-seqlist.txt  
 Output Set: N:\CRF3\06282002\J022073.raw

4 <110> APPLICANT: Chen, Yiyou  
 5 Day, Anthony G.  
 6 Estell, David A.  
 7 Murray, Christopher J.  
 8 Power, Scott D.  
 9 Schellenberger, Volker  
 11 <120> TITLE OF INVENTION: Targeted Enzymes  
 14 <130> FILE REFERENCE: GC713  
 16 <140> CURRENT APPLICATION NUMBER: US 10/022,073  
 17 <141> CURRENT FILING DATE: 2001-12-13  
 19 <150> PRIOR APPLICATION NUMBER: US 60/279,609  
 20 <151> PRIOR FILING DATE: 2001-03-28  
 22 <150> PRIOR APPLICATION NUMBER: US 60/255,774  
 23 <151> PRIOR FILING DATE: 2000-12-14  
 25 <160> NUMBER OF SEQ ID NOS: 43  
 27 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 361  
 31 <212> TYPE: PRT  
 32 <213> ORGANISM: Enterobacter cloacae  
 34 <400> SEQUENCE: 1  
 35 Thr Pro Val Ser Glu Lys Gln Leu Ala Glu Val Val Ala Asn Thr Ile  
 36 1 5 10 15  
 37 Thr Pro Leu Met Lys Ala Gln Ser Val Pro Gly Met Ala Val Ala Val  
 38 20 25 30  
 39 Ile Tyr Gln Gly Lys Pro His Tyr Tyr Thr Phe Gly Lys Ala Asp Ile  
 40 35 40 45  
 41 Ala Ala Asn Lys Pro Val Thr Pro Gln Thr Leu Phe Glu Leu Gly Ser  
 42 50 55 60  
 43 Ile Ser Lys Thr Phe Thr Gly Val Leu Gly Gly Asp Ala Ile Ala Arg  
 44 65 70 75 80  
 45 Gly Glu Ile Ser Leu Asp Asp Ala Val Thr Arg Tyr Trp Pro Gln Leu  
 46 85 90 95  
 47 Thr Gly Lys Gln Trp Gln Gly Ile Arg Met Leu Asp Leu Ala Thr Tyr  
 48 100 105 110  
 49 Thr Ala Gly Gly Leu Pro Leu Gln Val Pro Asp Glu Val Thr Asp Asn  
 50 115 120 125  
 51 Ala Ser Leu Leu Arg Phe Tyr Gln Asn Trp Gln Pro Gln Trp Lys Pro  
 52 130 135 140  
 53 Gly Thr Thr Arg Leu Tyr Ala Asn Ala Ser Ile Leu Gly Phe Gly Ala  
 54 145 150 155 160  
 55 Leu Ala Val Lys Pro Ser Gly Met Pro Tyr Glu Gln Ala Met Thr Thr  
 56 165 170 175

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```

57 Arg Val Leu Lys Pro Leu Lys Leu Asp His Thr Trp Ile Asn Val Pro
58           180                      185                      190
59 Lys Ala Glu Glu Ala His Tyr Ala Trp Gly Tyr Arg Asp Gly Lys Ala
60           195                      200                      205
61 Val Arg Val Ser Pro Gly Met Leu Asp Ala Gln Ala Tyr Gly Val Lys
62           210                      215                      220
63 Thr Asn Val Gln Asp Met Ala Asn Trp Val Met Ala Asn Met Ala Pro
64 225                      230                      235                      240
65 Glu Asn Val Ala Asp Ala Ser Leu Lys Gln Gly Ile Ala Leu Ala Gln
66           245                      250                      255
67 Ser Arg Tyr Trp Arg Ile Gly Ser Met Tyr Gln Gly Leu Gly Trp Glu
68           260                      265                      270
69 Met Leu Asn Trp Pro Val Glu Ala Asn Thr Val Val Glu Gly Ser Asp
70           275                      280                      285
71 Ser Lys Val Ala Leu Ala Pro Leu Pro Val Ala Glu Val Asn Pro Pro
72           290                      295                      300
73 Ala Pro Pro Val Lys Ala Ser Trp Val His Lys Thr Gly Ser Thr Gly
74 305                      310                      315                      320
75 Gly Phe Gly Ser Tyr Val Ala Phe Ile Pro Glu Lys Gln Ile Gly Ile
76           325                      330                      335
77 Val Met Leu Ala Asn Thr Ser Tyr Pro Asn Pro Ala Arg Val Glu Ala
78           340                      345                      350
79 Ala Tyr His Ile Leu Glu Ala Leu Gln
80           355                      360

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82 &lt;210&gt; SEQ ID NO: 2

83 &lt;211&gt; LENGTH: 8

84 &lt;212&gt; TYPE: PRT

85 &lt;213&gt; ORGANISM: Enterobacter cloacae

87 &lt;400&gt; SEQUENCE: 2

88 Arg Leu Tyr Ala Asn Ala Ser Ile

89 1 5

91 &lt;210&gt; SEQ ID NO: 3

92 &lt;211&gt; LENGTH: 8

93 &lt;212&gt; TYPE: PRT

94 &lt;213&gt; ORGANISM: Enterobacter cloacae

96 &lt;400&gt; SEQUENCE: 3

97 Val His Lys Thr Gly Ser Thr Gly

98 1 5

100 &lt;210&gt; SEQ ID NO: 4

101 &lt;211&gt; LENGTH: 50

102 &lt;212&gt; TYPE: DNA

103 &lt;213&gt; ORGANISM: Artificial Sequence

105 &lt;220&gt; FEATURE:

106 &lt;223&gt; OTHER INFORMATION: primer

108 &lt;400&gt; SEQUENCE: 4

109 gggcccggac atccaaagct tgtcgacagg aagcgggaaca cgtagaaagc

50

111 &lt;210&gt; SEQ ID NO: 5

112 &lt;211&gt; LENGTH: 50

113 &lt;212&gt; TYPE: DNA

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```

114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: primer
119 <400> SEQUENCE: 5
120 aagctttgga tgtccggggcc cgaattcgtg tgaaattgtt atccgctcac      50
122 <210> SEQ ID NO: 6
123 <211> LENGTH: 88
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: synthetic oligonucleotide
W--> 130 <221> NAME/KEY: misc_feature
131 <222> LOCATION: (1)...(88)
132 <223> OTHER INFORMATION: n = A,T,C or G
W--> 134 <400> 6
W--> 135 ttccaggcat ggcgggtggcc gttatttatn nsnsnsnsnn snsnsnsnns nnsaaaccgc      60
136 actattacac atttggcaag gccgacat      88
138 <210> SEQ ID NO: 7
139 <211> LENGTH: 88
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: synthetic oligonucleotide
W--> 146 <221> NAME/KEY: misc_feature
147 <222> LOCATION: (1)...(88)
148 <223> OTHER INFORMATION: n = A,T,C or G
W--> 150 <400> 7
W--> 151 cgcgatgtcg gccttgccaa atgtgtaata gtgcggttts nsnsnsnsnn nsnsnsnsnn      60
W--> 152 snnataaata acggccaccg ccatgcct      88
154 <210> SEQ ID NO: 8
155 <211> LENGTH: 74
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: synthetic oligonucleotide
162 <400> SEQUENCE: 8
163 ctaggtcttc tactagttta attgtcttag tcgtagctcc atctgcagtt gaagactctc      60
164 tactggcggg ttg      74
166 <210> SEQ ID NO: 9
167 <211> LENGTH: 77
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: primer
W--> 174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (1)...(77)
176 <223> OTHER INFORMATION: n = A,T,C or G
W--> 178 <400> 9
W--> 179 cgcttgcgcc gttgcccgtg gcagaagtga atnnsnsnn snsnsnsnns nnsnnstcct      60

```

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Input Set : A:\GC713-seqlist.txt

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```

180 ggggtccataa aactggc
182 <210> SEQ ID NO: 10
183 <211> LENGTH: 77
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: primer
W--> 190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (1)...(77)
192 <223> OTHER INFORMATION: n = A,T,C or G
W--> 194 <400> 10
W--> 195 tagagccagt tttatggacc caggasnnsn nsnnnsnnnsn snnnsnnnsna ttcacttctg
196 ccacgggcaa cggcgca
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 95
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: primer
W--> 206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: (1)...(95)
208 <223> OTHER INFORMATION: n = A,T,C or G
W--> 210 <400> 11
W--> 211 cgcttgccgcc gttgcccgtg gcagaagtga atnnnsnnnsn snnnsnnnsns nnsnnnsnn
W--> 212 nsnnnsnnnsn snnstcctgg gtccataaaa ctggc
214 <210> SEQ ID NO: 12
215 <211> LENGTH: 95
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: primer
W--> 222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (1)...(95)
224 <223> OTHER INFORMATION: n = A,T,C or G
W--> 226 <400> 12
W--> 227 tagagccagt tttatggacc caggasnnsn nsnnnsnnnsn snnnsnnnsns nnsnnnsnn
W--> 228 nsnnnsnnatt cacttctgcc acgggcaacg gcgca
230 <210> SEQ ID NO: 13
231 <211> LENGTH: 95
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: primer
W--> 238 <221> NAME/KEY: misc_feature
239 <222> LOCATION: (1)...(95)
240 <223> OTHER INFORMATION: n = A,T,C or G
W--> 242 <400> 13
W--> 243 cgcttgccgcc gttgcccgtg gcagaagtga atsnghcsn ghcsngdhc aagdhcsngd
W--> 244 hcsngdhcsn ghctcctgg gtccataaaa ctggc

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Input Set : A:\GC713-seqlist.txt

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```

246 <210> SEQ ID NO: 14
247 <211> LENGTH: 28
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: primer
254 <400> SEQUENCE: 14
255 attcacttct gccacgggca acggcgca 28
257 <210> SEQ ID NO: 15
258 <211> LENGTH: 25
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: primer
265 <400> SEQUENCE: 15
266 tagagccagt tttatggacc cagga 25
268 <210> SEQ ID NO: 16
269 <211> LENGTH: 84
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: primer
276 <400> SEQUENCE: 16
277 tggcccgcg cgcctaattg tcttaggcgg atgccatgtg cagtactaga agacggcgta 60
278 tcgggtcaat gtatcagggt ctcg 84
280 <210> SEQ ID NO: 17
281 <211> LENGTH: 26
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: primer
288 <400> SEQUENCE: 17
289 agacaattag cggccgcggg ccatgt 26
291 <210> SEQ ID NO: 18
292 <211> LENGTH: 28
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: primer
299 <400> SEQUENCE: 18
300 cagccgagac cctgatacat tgaccgga 28
302 <210> SEQ ID NO: 19
303 <211> LENGTH: 68
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: primer
W--> 310 <221> NAME/KEY: misc_feature
311 <222> LOCATION: (1)...(68)

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/022,073

DATE: 06/28/2002  
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Input Set : A:\GC713-seqlist.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 30,31,33,34,36,37,39,40,42,43,45,46,48,49,51,52  
Seq#:7; N Pos. 41,42,44,45,47,48,50,51,53,54,56,57,59,60,62,63  
Seq#:9; N Pos. 33,34,36,37,39,40,42,43,45,46,48,49,51,52,54,55  
Seq#:10; N Pos. 27,28,30,31,33,34,36,37,39,40,42,43,45,46,48,49  
Seq#:11; N Pos. 33,34,36,37,39,40,42,43,45,46,48,49,51,52,54,55,57,58,60,61  
Seq#:11; N Pos. 63,64,66,67,69,70,72,73  
Seq#:12; N Pos. 27,28,30,31,33,34,36,37,39,40,42,43,45,46,48,49,51,52,54,55  
Seq#:12; N Pos. 57,58,60,61,63,64,66,67  
Seq#:13; N Pos. 34,40,46,58,64,70  
Seq#:19; N Pos. 12,13,15,16,18,19,21,22,24,25,27,28  
Seq#:20; N Pos. 45,46,48,49,51,52,54,55,57,58,60,61  
Seq#:21; N Pos. 12,13,15,16,18,19,21,22,24,25,27,28,30,31,33,34,36,37,39,40  
Seq#:22; N Pos. 45,46,48,49,51,52,54,55,57,58,60,61,63,64,66,67,69,70,72,73  
Seq#:24; N Pos. 30,31,33,34,36,37,39,40,42,43,45,46,48,49,51,52  
Seq#:26; N Pos. 33,34,36,37,39,40,42,43,45,46,48,49,51,52,54,55,57,58,60,61  
Seq#:26; N Pos. 63,64,66,67,69,70,72,73  
Seq#:29; Xaa Pos. 36  
Seq#:30; Xaa Pos. 42  
Seq#:31; Xaa Pos. 42  
Seq#:32; Xaa Pos. 42  
Seq#:33; Xaa Pos. 42  
Seq#:34; Xaa Pos. 42  
Seq#:35; Xaa Pos. 42  
Seq#:36; Xaa Pos. 42  
Seq#:37; Xaa Pos. 42  
Seq#:38; Xaa Pos. 42  
Seq#:39; Xaa Pos. 42  
Seq#:40; Xaa Pos. 1,3,5,9,11,13  
Seq#:41; N Pos. 34,40,46,58,64,70

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/022,073

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Input Set : A:\GC713-seqlist.txt

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L:130 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:134 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:146 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:150 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60  
L:174 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:178 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9  
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:190 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:194 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10  
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:206 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:210 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:60  
L:222 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:226 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12  
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:60  
L:238 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:242 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13  
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:60  
L:310 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:314 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:19  
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:326 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:330 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:20  
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:60  
L:342 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:346 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21  
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:358 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:362 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:22  
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:60  
L:386 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:390 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:24  
L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:414 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:418 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:26  
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:60  
L:452 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:456 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29

## VERIFICATION SUMMARY

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L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:32  
L:472 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:476 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:30  
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:32  
L:492 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:496 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:31  
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:32  
L:512 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:516 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:32  
L:521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:32  
L:532 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:536 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:33  
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:32  
L:552 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:556 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:34  
L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:32  
L:572 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:576 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:32  
L:592 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:596 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:36  
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:32  
L:612 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:616 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:37  
L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:32  
L:632 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:636 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:38  
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:32  
L:652 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:656 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:39  
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:32  
L:672 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:676 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:40  
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:688 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:692 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:41  
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:60